

Appln. No.: 10/085,910
Amendment dated April 8, 2005
Supplemental Reply to Office Action of February 7, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method for receiving at a mobile terminal a digital video broadcasting service-signal formatted as a series of transmission bursts provided by each of a plurality of wireless transmitters, said method comprising the steps of:

receiving a first digital video broadcasting service-signal broadcast by a first wireless transmitter at a first frequency;

if said first digital video broadcasting service-signal meets a first predefined criterion, deriving digital video broadcasting signal data from a second digital video broadcasting service signal broadcast by a second wireless transmitter; and

if said digital video broadcasting signal data from said second wireless transmitter meets a second predefined criterion, switching reception from said first wireless transmitter to said second wireless transmitter after a first digital video broadcasting service-signal transmission burst has been received.

Claim 2 (Canceled).

Claim 3 (Currently Amended): A method as in claim 1 further comprising the step of stripping encapsulation from said first digital video broadcasting service-signal after receipt by the mobile terminal.

Claim 4 (Original): A method as in claim 3 wherein said encapsulation conforms to standard EN 301192.

Claim 5 (Currently Amended): A method as in claim 3 further comprising the step of sending said first digital video broadcasting service-signal to an application processor for conversion to a data packet.

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Claim 6 (Currently Amended): A method as in claim 1 wherein said first criterion is met if a receiver signal strength value for said first digital video broadcasting ~~service~~-signal measured by the mobile terminal is less than a predetermined value.

Claim 7 (Currently Amended): A method as in claim 1 wherein said first criterion is met if a bit error rate for said first digital video broadcasting ~~service~~-signal measured by the mobile terminal is greater than a predetermined value.

Claim 8 (Currently Amended): A method as in claim 1 wherein said second criterion is met if a bit error rate for said second digital video broadcasting ~~service~~-signal measured by the mobile terminal is smaller than a predetermined value.

Claim 9 (Currently Amended): A mobile terminal suitable for receiving information from a plurality of wireless transmitters, said mobile terminal comprising:

a digital broadcast receiver for receiving from a first transmitter at least a first portion of the information as a first transmission burst, said first transmission burst broadcast synchronously by a-the first wireless transmitter and a second wireless transmitter;

a receiver elastic buffer for storing said first transmission burst; and

means for switching reception from the first wireless transmitter to a-the second wireless transmitter after reception of said first transmission burst has been completed.

Claim 10 (Original): The mobile terminal as in claim 9 further comprising means for deriving a bit error rate for said first transmission burst.

Claim 11 (Original): The mobile terminal as in claim 9 further comprising means for deriving a received signal strength indicator value for said first transmission burst.

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Claim 12 (Original): The mobile terminal as in claim 9 wherein said means for switching is operative in response to said second wireless transmitter providing to said mobile terminal a signal meeting a predefined criterion.

Claim 13 (Original): The mobile terminal as in claim 9 further comprising an application processor for converting said first transmission burst into an information data stream.

Claim 14 (Currently Amended): The mobile terminal as in claim 9 further comprising a stream filter for stripping transmission encapsulation from said first transmission burst stored in said receiver elastic buffer.

Claim 15 (Currently Amended): The mobile terminal as in ~~claim 9~~ claim 14 wherein said stream filter comprises an Internet protocol (IP) filter.

Claim 16 (Currently Amended): A digital broadcasting system comprising:

a first transmitter for broadcasting at least an interval of information as a transmission burst in synchronization with at least one other transmitter; and

a receiver system for receiving said transmission burst, said receiver including a receiver elastic buffer for buffering said transmission burst, said receiver further including means for executing a hand-over from said first transmitter to said ~~at least one other transmitter~~ upon receipt of said transmission burst if at least one predefined criterion has been met.

Claim 17 (Original): The digital broadcasting system as in claim 16 wherein said first transmitter comprises a multi-protocol encapsulator for encapsulating said transmission burst.

Claim 18 (Original): The digital broadcasting system as in claim 16 wherein said at least one predefined criterion is met if a receiver signal strength value for said transmission burst as measured by said receiver system is less than a predetermined value.

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Claim 19 (Previously Presented): The digital broadcasting system as in claim 16 wherein said at least one predefined criterion is met if a bit error rate for said transmission burst as measured by the receiver system is greater than a predetermined value.

Claim 20 (Previously Presented): The digital broadcasting system as in claim 16 wherein said at least one predefined criterion is met if a bit error rate for a signal received from said at least one other transmitter as measured by the receiver system is smaller than a predetermined value.

Claim 21 (Currently Amended): A method for receiving a series of service-signals provided by each of plurality of wireless transmitters, said method comprising the steps of:

selecting a first synchronized wireless transmitter from a plurality of synchronized wireless transmitters for providing information, each of said synchronized wireless transmitters broadcasting on a different frequency;

receiving service-signals broadcast by the first synchronized wireless transmitter;

deriving a first bit error rate for information received from said first wireless transmitter;

if said first bit error rate for said first wireless transmitter is greater than a predefined quasi-error-free value, deriving a second bit-error-rate for a second synchronized wireless transmitter; and

if said second bit-error rate is less than said quasi-error-free value, selecting said second synchronized wireless transmitter for providing the information.

Claim 22 (Currently Amended): The method of claim 21 wherein said step of selecting said second synchronized wireless transmitter for providing information is performed after completing receipt of a service-signal transmission burst from said first synchronized wireless transmitter and prior to a consecutive service-signal transmission burst from said second synchronized wireless transmitter.

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Claim 23 (Previously Presented): The method as in claim 21 wherein said second synchronized wireless transmitter is selected from the plurality of synchronized wireless transmitters as a function of received signal strength indicator value.

Claim 24 (Currently Amended): A mobile terminal suitable for receiving information from a plurality of synchronized digital video broadcasting wireless transmitters, wherein each synchronized transmitter synchronously transmits a common content signal, said mobile terminal comprising:

a digital broadcast receiver configured to receive at least a first portion of the information as a first transmission burst, said first transmission burst broadcast by a first digital video broadcasting wireless transmitter of the plurality of wireless transmitters;

a buffer configured to store said first transmission burst;

a processor coupled to the digital broadcast receiver; and

memory storing executable instructions that, when executed by the processor, causes the processor to switch reception by the digital broadcast receiver from the first digital video broadcasting wireless transmitter to a second digital video broadcasting wireless transmitter of the plurality of wireless transmitters after reception of said first transmission burst has been completed and before a consecutive transmission burst is sent by the synchronized first and second digital video broadcasting wireless transmitters.

Claim 25 (Previously Presented): The mobile terminal of claim 24, wherein the executable instructions are further for deriving a bit error rate for said first transmission burst.

Claim 26 (Previously Presented): The mobile terminal of claim 24, wherein the executable instructions are further for deriving a received signal strength indicator value for said first transmission burst.

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Claim 27 (Previously Presented): The mobile terminal of claim 24, wherein said switching is operative in response to said second digital video broadcasting wireless transmitter providing to said mobile terminal a signal meeting a predefined criterion.

Claim 28 (Previously Presented): The mobile terminal of claim 24, wherein the executable instructions are further for converting said first transmission burst into an information data stream.

Claim 29 (Currently Amended): The mobile terminal of claim 24, further comprising a stream filter configured to strip transmission encapsulation from said first transmission burst stored in said buffer.

Claim 30 (Previously Presented): The mobile terminal of claim 29, wherein said stream filter comprises an Internet Protocol (IP) filter.

Claim 31 (Currently Amended): A digital broadcasting system comprising:
a first digital video broadcasting transmitter configured to broadcast information as a first plurality of consecutive transmission bursts;
a second digital video broadcasting transmitter configured to broadcast the information as a second plurality of consecutive transmission bursts in synchronization with the first plurality of consecutive transmission bursts; and
a receiver system configured to receive said information, said receiver system including a buffer configured to buffer said transmission bursts, said receiver further including a processor, and a memory storing executable instructions that, when executed by the processor, cause the processor to perform a hand-over from said first digital video broadcasting transmitter to said second digital video broadcasting transmitter upon receipt of a first transmission burst, prior to a consecutive transmission burst, if at least one predefined criterion has been met.

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Claim 32 (Previously Presented): The digital broadcasting system of claim 31, wherein said first digital video broadcasting transmitter comprises a multi-protocol encapsulator configured to encapsulate each transmission burst.

Claim 33 (Previously Presented): The digital broadcasting system of claim 31, wherein said at least one predefined criterion is met if a receiver signal strength value for said first transmission burst as measured by said receiver system is less than a predetermined value.

Claim 34 (Previously Presented): The digital broadcasting system of claim 31, wherein said at least one predefined criterion is met if a bit error rate for said first transmission burst as measured by the receiver system is greater than a predetermined value.

Claim 35 (Previously Presented): The digital broadcasting system of claim 31, wherein said at least one predefined criterion is met if a bit error rate for a signal received from said second digital video broadcasting transmitter as measured by the receiver system is smaller than a predetermined value.

Claim 36 (Currently Amended): A method for receiving a series of ~~service~~-signals provided in synchronization by each of first and second wireless transmitters, said method comprising the steps of:

receiving ~~service~~-signals broadcast synchronously by the first and second wireless transmitters, each of said first and second wireless transmitters broadcasting on a different frequency;

selecting the first wireless transmitter for receiving information broadcast in consecutive transmission bursts;

deriving a first bit error rate for information received from said first wireless transmitter;

if said first bit error rate for said first wireless transmitter is greater than a predefined quasi-error-free value, deriving a second bit-error-rate for the second wireless transmitter; and

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if said second bit error rate is less than said quasi-error-free value, selecting said second wireless transmitter for receiving the information.

Claim 37 (Currently Amended): The method of claim 36, wherein said step of selecting said second wireless transmitter for receiving the information is performed after receipt of a service signal transmission burst from said first wireless transmitter, and prior to receipt of a consecutive service-signal transmission burst from said second wireless transmitter.

Claim 38 (Previously Presented): The method as in claim 36, wherein said second wireless transmitter is selected from a plurality of available transmitters as a function of a received signal strength indicator value.

Claim 39 (Previously Presented): The digital broadcasting system of claim 16, wherein the receiver system comprises a mobile terminal.

Claim 40 (Previously Presented): The digital broadcasting system of claim 16, wherein executing a hand-over from said first transmitter to said at least one other transmitter upon receipt of said transmission burst comprises completing the hand-over prior to a consecutive transmission burst transmitted by the synchronized first and other transmitters.

Claim 41 (Previously Presented): The method of claim 1, wherein each of the plurality of wireless transmitters broadcast in synchronization.

Claim 42 (Currently Amended): The method of claim 41, wherein switching reception from said first wireless transmitter to said second wireless transmitter after the first digital video broadcasting service signal transmission burst has been received occurs prior to receipt of a consecutive ~~DVB-digital video broadcasting~~ service signal transmission burst transmitted by the second wireless transmitter.

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Claim 43 (Canceled).

Claim 44 (Currently Amended): The mobile terminal of ~~claim 43~~ claim 9, wherein means for switching reception from the first wireless transmitter to the second wireless transmitter synchronized with the first wireless transmitter switches reception after reception of said first transmission burst has been completed and prior to a consecutive transmission burst transmitted by the second wireless transmitter.

Claim 45 (Canceled).